

mounting a third measuring device in a predetermined relationship to the second measuring device of the machine measuring system; and  
using a computer, calculating a relative measuring-device position value of the machine measuring system representing the position of the first measuring device relative to the second measuring device based on a position of the first calibration target relative to the third measuring device;

38. (Amended) A method for measuring the relative positions of a plurality of devices, the method comprising the steps of:

for a position of a first device of the plurality of devices relative to a second device of the plurality of devices,

mounting near the first device a calibration device in which the position of the calibration device relative to the first device is predetermined;

mounting near the second device a calibration target in which the position of the calibration target relative to the second device is

predetermined;

measuring the position of the calibration device relative to the calibration target; and

using a computer, determining the position of the first device relative to the second device based on:

the position of the calibration device relative to the first device;

the position of the calibration target relative to the second device; and

the position of the calibration relative device to the calibration target.

